Contents Volume 3, 1990

Research Papers

A new correlation of the glacial moraines in the Southern Apennines, Italy
G. Palmentola, P. Acquafredda and S. Fiore (Bari, Italy) 1

Tertiary coastal dunes of the Eucla Basin, Australia
M.C. Benbow (Adelaide, S.A., Australia) 9

Morphological and hydrological characteristics of some allochthonous river channels, Western Deccan Trap Upland region, India
V.S. Kale (Pune, India) 31

A comparison between theoretical and measured creep profiles of landslides
Th. J.W. van Asch and P.M.B. van Genuchten (Utrecht, The Netherlands) 45

The distribution of permafrost in rock glaciers of the southern Alps, France
M. Evin and D. Fabre (Grenoble, France) 57

Alpine lithofacies variation; working toward a physically-based model
S.E. Morris (Moscow, Ind., U.S.A.) and G.A. Olyphant (Bloomington, Ind., U.S.A.) 73

Book Reviews

Processus et Mesure de l'Erosion by A. Godard and A. Rapp (Editors) — Th. W.J. van Asch 91
Periglacial Processes and Landforms in Britain and Ireland by J. Boardman (Editor) — J. Hansom 92
Catastrophic Flooding by L. Mayer and D. Nash (Editors) — R.C. Kochel 93
Rocks and Landforms by A.J. Gerrard — V.R. Baker 94
Experimental Fluvial Geomorphology by S.A. Schumm, M.P. Mosley and W.E. Weaver — W.A. Marcus 96

Guide for Authors

Research Papers

Flow and particle paths at a natural river confluence with coarse bed material
A.G. Roy (Montreal, Que., Canada) and N. Bergeron (Buffalo, N.Y., U.S.A.) 99

Longevity of treethrow microtopography: implications for mass wasting
R.J. Schaetzl (East Lansing, Mich., U.S.A.) and L.R. Follmer (Champaign, Ill., U.S.A.) 113

Geomorphology of the Gran Sabana, Guayana Shield, southeastern Venezuela
H.O. Briceño and C. Schubert (Caracas, Venezuela) 125

Thickness and character of regolith on mountain slopes in the vicinity of Mountain Lake, Virginia, as indicated by seismic refraction, and implications for hillslope evolution
H.H. Mills (Cookeville, Tenn., U.S.A.) 143

Floodplain dynamics of a wandering river, dendrochronology of the Morice River, British Columbia, Canada
A.S. Gottesfeld (Terrace, B.C., Canada) and L.M. Johnson Gottesfeld (Kitwanga, B.C., Canada) 159

Paleohydrologic techniques used to define the spatial occurrence of floods
R.D. Jarret (Denver, Colo., U.S.A.) 181

Special Issue

Dedication iii
In Memoriam iv

Soil geomorphology: the linkage of pedology and surficial processes
L.D. McFadden (Albuquerque, N.M., U.S.A.) and P.L.K. Knuepfer (Binghamton, N.Y., U.S.A.) 197

Soil-geomorphic research – a selective overview
P.W. Birkeland (Boulder, Colo., U.S.A.) 207

Soil variations on hillslopes in humid temperate climates
A.J. Gerrard (Birmingham, U.K.) 225

Genesis of soils and landscapes in the Ridge and Valley province of central Pennsylvania
E.J. Ciolkosz (University Park, Pa., U.S.A.), B.J. Carter (Stillwater, Okla., U.S.A.), M.T. Hoover (Raleigh, N.C., U.S.A.), R.C. Cronce (Middletown, Pa., U.S.A.), W.J. Waltman (Ithaca, N.Y., U.S.A.) and R.R. Dobos (University Park, Pa., U.S.A.) 245

The role of soil processes in determining mechanisms of slope failure and hillslope development in a humid-tropical forest, eastern Puerto Rico
A. Simon (Vancouver, Wash., U.S.A.), M.C. Larsen (San Juan, P.R., U.S.A.) and C.R. Hupp (Reston, Va., U.S.A.) 263
The role of topography and surface cover upon soil formation along hillslopes in arid climates
A. Yair (Jerusalem, Israel) 287
Soils and geomorphic evolution of bedrock facets on a tectonically active mountain front, western Sangre de Christo Mountains, New Mexico
C.M. Menges (Albuquerque, N.M., U.S.A.) 301
Soil catena development on fault scarps of different ages, eastern escarpment of the Sierra Nevada, California
M.E. Berry (Boulder, Colo., U.S.A.) 333
Stream-terrace genesis: implications for soil development
W.B. Bull (Tucson, Ariz., U.S.A.) 351
From a black to a gray box – a mass balance interpretation of pedogenesis
O.A. Chadwick (Pasadena, Ca., U.S.A.), G.H. Brimhall (Berkeley, Ca., U.S.A.) and D.M. Hendricks (Tucson, Ariz., U.S.A.) 369
Soil development on stable landforms and implications for landscape studies
J.W. Harden (Menlo Park, Ca., U.S.A.) 391
Spatial soil variability in the Cajon Pass chronosequence: implications for the use of soils as a geochronological tool
J.B.J. Harrison, L.D. McFadden (Albuquerque, N.M., U.S.A.) and R.J. Weldon III (Eugene, Oreg., U.S.A.) 399
Contrasting soils and landscapes of the Piedmont and Coastal Plain, eastern United States
H.W. Markewich (Doraville, Ga., U.S.A.), M.J. Pavich (Reston, Va., U.S.A.) and G.R. Buell (Doraville, Ga., U.S.A.) 417
Interaction between aggrading geomorphic surfaces and the formation of a Late Pleistocene paleosol in the Palouse loess of eastern Washington state
E.V. McDonald (Albuquerque, N.M., U.S.A.) and A.J. Busacca (Pullman, Wa., U.S.A.) 449
Soil and geomorphic evolution within the Rolling Red Plains using Pleistocene volcanic ash deposits
B.J. Carter, Ph. A. Ward III and J.T. Shannon (Stillwater, Okla., U.S.A.) 471
Soils and landscape evolution of eolian plains: the Southern High Plains of Texas and New Mexico
V.T. Holliday (Madison, Wisc., U.S.A.) 489
Eolian landscape evolution and soil formation in the Chaco dune field, southern Colorado Plateau, New Mexico
S.G. Wells, L.D. McFadden and J.D. Schultz (Albuquerque, N.M., U.S.A.) 517
Soil-stratigraphic techniques in the study of soil and landform evolution across the Southern Alps, New Zealand
P.J. Tonkin (Canterbury, New Zealand) and L.R. Basher (Christchurch, New Zealand) 547